

Claims

1-22. (canceled)

23. (withdrawn) A wound care membrane comprising S-sulfonated keratin reacted with reducing agent to introduce disulfide crosslinking and improve wet strength.

24. (withdrawn) The wound care membrane of claim 23 where the S-sulfonated keratin is S-sulfonated keratin intermediate filament protein and the reducing agent is a thioglycollate.

25. (previously presented) A wound care hydrogel comprising S-sulfonated keratin in admixture with hydrogen bonding providing water soluble polymer crosslinked with an amount of protein crosslinking agent to provide increased dimensional stability.

26. (previously presented) The wound care hydrogel of claim 25 where the S-sulfonated keratin is S-sulfonated keratin intermediate filament protein, the water soluble polymer is selected from the group consisting of polyvinyl alcohol and polyvinyl pyrrolidone and mixtures thereof, and the protein crosslinking agent is selected from the group consisting of glutaraldehyde, formaldehyde, carbodiimide, 2,5-hexanedione, diimide, bisacrylamide and mixtures thereof.

27. (previously presented) The wound care hydrogel of claim 26 where the protein crosslinking agent comprises glutaraldehyde.

28. (previously presented) A wound care hydrogel comprising S-sulfonated keratin in admixture with hydrogen bonding providing water soluble polymer.

29. (previously presented) The wound care hydrogel of claim 28 where the S-sulfonated keratin is S-sulfonated keratin intermediate filament protein and the water soluble polymer is selected from the group consisting of polyvinyl alcohol and polyvinyl pyrrolidone and mixtures thereof.

30. (withdrawn) A method for treating a wound comprising applying to a wound site a wound care membrane according to claim 23.

31. (withdrawn) A method for treating a wound comprising applying to a wound site a wound care membrane according to claim 24.

32. (withdrawn) A method for treating a wound comprising applying a wound site a wound care hydrogel according to claim 25.

33. (withdrawn) A method for treating a wound comprising applying a wound site a wound care hydrogel according to claim 26.

34. (withdrawn) A method for treating a wound comprising applying a wound site a wound care hydrogel according to claim 27.

35. (withdrawn) A method for treating a wound comprising applying a wound site a wound care hydrogel according to claim 28.

36. (withdrawn) A method for treating a wound comprising applying a wound site a wound care hydrogel according to claim 29.